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Title: JP10222940A2: EQUIPMENT FOR REPRODUCING INFORMATION AND EQUIPMENT FOR RECORDING AND REPRODUCING INFORMATION

Country: JP Japan

Kind: A

Inventor: KATAYAMA YUKARI;
NISHITANI TAKUJI;
NARA TAKASHI;
NISHINA MASATOSHI;

Assignee: HITACHI LTD
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Published / Filed: 1998-08-21 / 1997-02-05

Application Number: JP1997000022735

IPC Code: G11B 20/18; G11B 20/18; G11B 20/18; H03M 13/12;

Priority Number: 1997-02-05 JP1997000022735

Abstract:

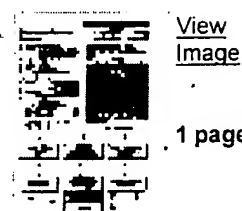
PROBLEM TO BE SOLVED: To provide equipment for recording and reproducing information of which the capacity of correction of an error in an R/W(read/write) channel and HDC(hard disk controller) is improved without increasing the number of redundant bytes of an error correction code.

SOLUTION: A magnetic disk device 2 is equipped with an SOVA(soft output Viterbi algorithm) decoding circuit 7 which obtains decoded data on the basis of a reproduction signal read out from a magnetic disk storage medium. In the SOVA decoding circuit 7 and an RLL(run length limited) encoder/decoder 6, reliability information showing the reliability of the decoded data is generated on the basis of the error between an expected value of the reproduction signal based on the decoded data and the reproduction signal obtained actually by a decoded data generating means, and error correction is executed in an ECC (error correction code) generation/GMD decoder 5 in conformity with the information showing the less reliability, out of the reliability information.

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Family: None

Other Abstract Info: DERABS G98-511845 DERG98-511845



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